
Product Data Sheet

Product Name: IMPAD1 Mouse Bioactive

Cat. No.: GP23702

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Inositol monophosphatase 3; IMP 3; IMPase 3; Golgi 3-primephosphoadenosine 5-prime phosphate 3-prime phosphatase; Golgi-resident PAPphosphatase; gPAPP; Inositol monophosphatase domain-containing protein 1; Inositol-1(or4)-monophosphatase 3; Myo-inositol monophosphatase A3.		
Amino Acid Sequence	ADPGRFSLFG LGSEPAAGEAEVASDGGTVD LREMLAVAVL AAERGGDEV RVRESNLHE KSKGKTREGA DDKMTSGDVL SNRKMFYLLK TAFPNVQINTEEHVDASDKE VIVWNRKIPE DILKEIAAPK EVPAESVTW IDPLDATQEY TEDLRKYVTT MVCVAVNGKPVLGVIHKPFSEYTAWAMVDG GSNVKARSSYNEKTPKIIVS RSHAGMVKQV ALQTFGNQTS IIPAGGAGYK VLALLDVPDM TQEKADLYIH VTYIKKWDIC AGNAILKALGGHMTTLNGEE ISYTGSDGIE GLLASIRMN HQALVRKLPD LEKSGHHHHH HH.		
Formulation	IMPAD1 protein solution (0.5mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Inositol monophosphatase 3 (IMPAD1) belongs to the inositol monophosphatase family. IMPAD1 is restricted to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). IMPAD1 gene mutations cause the GRAPP type chondrodysplasia with joint dislocations, and a pseudogene of the IMPAD1 gene is located on the long arm of chromosome 1.

Biological Activity

Specificactivity is > 5,000 pmol/min/ug and is defined as the amount of enzyme thathydrolyze Adenosine 3, 5-diphosphate per minute at pH 7.5 at 25C.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IMPAD1 Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 332 amino acids (34-356 a.a.) and having a molecular mass of 36.2 kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40 kDa). IMPAD1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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